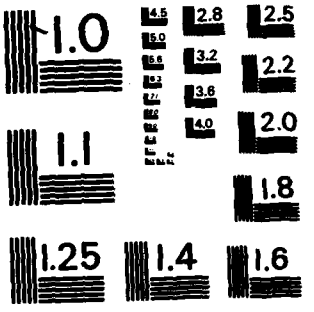
AD-A138 192 DEPARTMENT OF THE ARMY JUSTIFICATION OF ESTIMATES FOR 1/1
FISCAL YEAR 1985 PR..(U) DEPUTY CHIEF OF STAFF FOR
RESEARCH DEVELOPMENT AND ACQUISITIO.. FEB 84

UNCLASSIFIED F/G 15/5 NL



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE	READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER	2. GOVT ACCESSION NO. AD-A138 192 / 3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) (in 6 parts) Department of the Army Justification of Estimates for Fiscal Year 1985, Submitted to Congress February 1984, Procurement Programs, Aircraft, Missiles, Weapons & Tracked Cbt Veh., Ammunition, Other Procurement & Constr Programs	5. TYPE OF REPORT & PERIOD COVERED: Army Procurement Budget Justification, FY 1985 / 6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(s): Department of the Army	8. CONTRACT OR GRANT NUMBER(s)
9. PERFORMING ORGANIZATION NAME AND ADDRESS: HQDA, Office of the Deputy Chief of Staff for Research, Development, and Acquisition (DAMA-PPP-B) Washington, DC 20310	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
11. CONTROLLING OFFICE NAME AND ADDRESS: HQDA, Office of the Deputy Chief of Staff for Research, Development, and Acquisition (DAMA-AOA) Washington, DC 20310	12. REPORT DATE: February 1984 / 13. NUMBER OF PAGES: 258 (including all parts)
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)	15. SECURITY CLASS. (of this report): UNCLASSIFIED / 15a. DECLASSIFICATION/DOWNGRADING SCHEDULE

16. DISTRIBUTION STATEMENT (of this Report)

Approved for public release; distribution unlimited.

17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)

18. SUPPLEMENTARY NOTES

19. KEY WORDS (Continue on reverse side if necessary and identify by block number)

Army Procurement Programs Budget Justification Books covering Aircraft, Missiles, Weapons and Tracked Combat Vehicles, Ammunition, Other Procurement, Army Appropriations programs and Construction programs submitted by the Army to Congress February 1984 for Fiscal Year 1985.

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

In justification of programs requested, this document, in separate volume for each of the five Procurement Appropriations, and one separate volume for Construction Programs, provides backup data for the Army Budget submission for FY 1985. Included are Summaries of Requirements, Program and Financing Statements and Selected Data Sheets. (These volumes are unclassified).

DD FORM 1 JAN 73 1473 EDITION OF 1 NOV 65 IS OBSOLETE

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

February 1984

FORWARD

The DD Forms 1391 contained herein provide the justification data required to support the Fiscal Year 1985 Army Procurement Budget Estimates as submitted to Congress in February 1984. Projects for the Missile Procurement, Army appropriation are reflected on pages 1-2, for the Procurement of Weapons and Tracked Combat Vehicles, Army appropriation on pages 3-9, and for the Procurement of Ammunition, Army appropriation on pages 10-22.

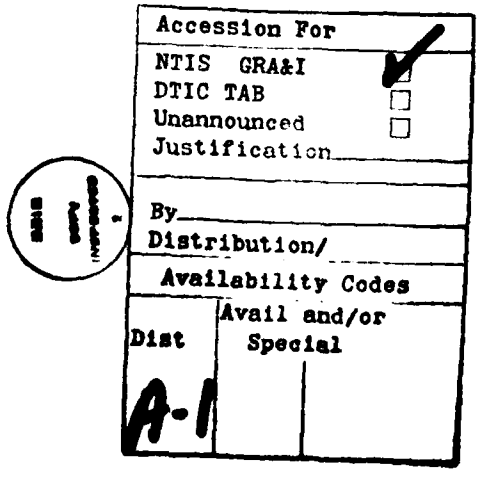
DEPARTMENT OF THE ARMY
JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 1985
SUMMARY

P-1 Line No. 22:

Appropriation: Procurement of Missiles, Army

Activity 5 - Support Equipment and Facilities

INSTALLATION	PROJECT NO.	PROJECT TITLE	COST ESTIMATE (Millions)	PAGE NO.
Redstone Arsenal Huntsville, AL	3852169	Fire Protection, Thiokol	0.250	1
Redstone Arsenal Huntsville, AL	3852209	Modernization of Rocket Motor Loading Facility, Thiokol	7.8	2



DEPARTMENT OF THE ARMY
JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 1985
SUMMARY

P-1 Line No: 29

Appropriation: Procurement of Weapons and Tracked Combat Vehicles, Army
Activity 1 - Tracked Combat Vehicles.

	Installation	Project No.	Project Title	Cost Estimate (Millions)	Page No.
	Lima Army Tank Expansion Phase II, Ohio	4855030	Lima Expansion, Phase II	13.5	3
	Detroit Arsenal Tank Plant, Warren MI	4856036	Production Support and Equipment Replacement for the DATP	1.1	5
*	Stratford Army Engine Plant, Stratford, CT	7858174	Spt-Facility Rehabilitation for the Stratford Army Engine Plant	0.3	7
	Mainz Army Depot (MZAD) Mainz, Germany	4852006	Modernization of MZAD Complex	13.9	8

* This plant is also used to produce the AGT 1500 turbine engines used in the UH-1, AH-1, and CH-47 Helicopters and the OV-1 Aircraft.

DEPARTMENT OF THE ARMY
JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 1985
SUMMARY

P-1 Line No: 122

Appropriation: Procurement of Ammunition, Army

Activity 2 - Production Base Support

ARMY AMMUNITION PLANT (AAP)	PROJECT NO.	PROJECT TITLE	CONSTRUCTION COST ESTIMATE (MILLIONS)	PAGE NO.
Holston AAP, TN	5855328-15	Access Platform	.230	10
	5852199	Coal Handling	7.000	11
	5852447	Modify RDX/HMX Line	7.800	12
	5852439	Productivity Improvements	.910	13
	5852054	Modify Comp C-4 Fac	3.900	14
Indiana AAP, IN	5852159	Prop Charge Bldg	1.900	15
Iowa AAP, IA	5855333-13	Blow Out Roofs	.690	16
	5855333-16	Environ Control Sys	1.100	17
Louisiana AAP, LA	5852507	Chemical Lab	1.600	18
Radford AAP, VA	5852229	120mm Prop Blend	.460	19
	5855326-13	Replace Barricades	2.150	20
	5855326-21	Replace Barricades	.330	21
Scranton AAP, PA	5852359	Water Distr Sys	2.050	22
		Ammunition Production Base Construction		
		TOTAL	$30.120	

1. COMPONENT	FY 1985 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
Army		February 1984

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
Redstone Arsenal, AL MICOM	PS&ER Thiokol - Fire Protection

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
Production Base Support	226-45	3852169-4	$250

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				223
Fire Protection			LS	(223)
Subtotal				223
Contingency (5%)				11
Contract Cost				234
Supervision, Inspection & Overhead (5%)				13
Total Request				247
Total Request (Rounded)				250
(Installed Equipment - Other Appropriations)				(0)

10. DESCRIPTION OF PROPOSED CONSTRUCTION

This project consists of installation of Halon 13 fire protection systems in Buildings 7376, 7620, 7641, 7650 and 7661 and installation of water sprinklers in the area of building 7641 not covered by Halon 13 system.

11. REQUIREMENT FOR CONSTRUCTION PROJECT:

These buildings house electronic equipment, irreplaceable rocket motor design and performance records, a communications center and classified document storage that must be protected from fire.

12. CURRENT SITUATION:

The irreplaceable records and expensive equipment is housed in buildings without adequate fire protection.

13. *IMPACT IF NOT APPROVED:*

Failure to provide this project will subject expensive equipment and irreplaceable records to loss by fire.

1. COMPONENT	FY 19 85 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
Army		February 1984

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
Redstone Arsenal, AL MICOM	PSR/Mod: Modernization of Rocket Motor Loading Facility, Thiokol

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
Production Base Support	2591	3852209	7,837.8

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
1. Utilities & Roads	LS			490.6
2. Building 7663	SF	25,000	200.32	5,008.1
3. Building 7664	SF	7,890	78.72	621.1
4. Building 7654	SF	7,460	143.81	1,072.8
5. Building 7662	SF	1,160	190.26	220.7
Subtotal				7,422.3
SI&A				415.5
TOTAL Project Cost				7,837.8

10. DESCRIPTION OF PROPOSED CONSTRUCTION

This project consists of five subprojects which are to provide modern facilities designed for rocket motor production. These production efficient buildings will replace facilities which were designed and built in 1930-1942 for artillery shell loading. Four of the subprojects are for buildings while the fifth provides utilities, access roads, and service areas.

11. REQUIREMENT FOR CONSTRUCTION PROJECT:

This project is for the replacement of four 40 year old former artillery shell loading buildings which have now deteriorated beyond further economical maintenance and repair. The buildings are vital to the efficient production of small rocket motor's. Increasing requirements for higher impulse propellants mandate different safety requirements and production flow to efficiently produce small rocket motors utilizing minimum smoke 1.1 hazard type propellants. Building 7763 replacement will be capable of manufacturing either conventional 1.3 hazard propellant motors or the low/min smoke 1.1 hazard type motor. It will accomodate motors of the HELLFIRE, VIPER, and STINGER size motors up to and including the 6 ft CHAPPARRAL type motor at manufacturing rates of approximately 900 such motors per month. Building 7654 will provide a modernized facility capable of manufacturing rocket motor ignition systems for all size rocket motors, either conventional or low/min moke types. Building 7664 is a parts and tooling cleaning facility with a gritblast area which supports all small rocket motor production. This facility provides cleaning process for the propellant mixing and grinding equipment used to reproduce rocket motor propellants. The gritblast facility contained in this building mechanically cleans the interior and exterior of the rocket motor cases to assure that subsequent processing will provide a quality rocket motor. Building 7662 is a small propellant mixing facility which produces specialized propellant for ignitions and pyrogen manufacturing.

1. COMPONENT	FY 1985 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ARMY		February 1984

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
Lima Army Tank Plant, Lima, Ohio	Lima Expansion, Phase II

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
	224 10	4855030	$13,541

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				13,541
Expansion btwn B147 and B186	SF	113,118	59.20	(6,697)
Expansion, Section A, North Side	SF	21,070	108.69	(2,290)
Expansion, Section B, North Side	SF	37,781	76.89	(2,905)
Expansion, Section C, North Side	SF	5,879	66.34	(390)
Subtotal				12,282
Contingency (5.00%)				614
Total Contract Cost				12,896
Supervision Insp and O'head (5.00%)				645
Total Request				13,541

10. DESCRIPTION OF PROPOSED CONSTRUCTION

The project will provide for site preparation, building expansion, and facility expansion necessary to support increases in production. Each building addition will include insulated metal walls, metal roof decking, built up roofs, reinforced concrete floors, and interior lighting. Buildings will also include ventilation, heating, cooling, all required plumbing, and electrical telephone, and fire protection equipment. Current building code requirements will apply including exits, restrooms, and fire protection.

Building expansion between Bldg. 147 and Bldg. 186 will also require along with the primary facilities, relocation of a section of track No. 19, relocation of M-1 fuel storage, widening of the access road and truck "turn-around" to the receiving dock, demolition of concrete and relocation of water, sewer, fire sprinkler mains in the area between the two buildings, and a new concrete roadway from Bldg. 186 to the water test for tank traffic to the water test and the test track.

Building expansions in the other four areas generally require, in addition to building construction, demolition of pavement (either concrete or asphalt), and the relocation of utilities such as sewer, water, fire protection, and storm drainage.

---

11. REQUIREMENT:

PROJECT: Provide 4 additions to building 147 for expansion of production area.

Specific expansions provide additional resources in production areas as explained below.

1. COMPONENT	FY 1985 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ARMY		February 1984
3. INSTALLATION AND LOCATION		
Lima Army Tank Plant, Lima, OH		
4. PROJECT TITLE		5. PROJECT NUMBER
Lima Expansion, Phase II		4855030

Expansion between Bldg. 147 and Bldg. 186 provides for a more efficient shipping and receiving dock and increased space for material staging, eliminates the congestion currently tolerated in Test and Adjust, and adds area to Turret Appurtenance Weld.

The expansion, Section A, at the north side of Bldg. 147 will house additional shot blast machines. These shot blast machines are required to remove rust from steel plates stored outside in the weather.

The expansion, Section B, at the north side of Bldg. 147 is required for five (5) side blast milling machines and tank nose sub-assembly weld. Not only does this addition provide more space for additional machines and fixtures, but it also locates these functions closer to where the parts will be used.

The fourth expansion, Section C, at the north side of Bldg. 147 will house Safety and Medical. The area vacated in the plant by Safety and Medical will become office space for production personnel.

Generally, the areas vacated by activities moving into the new additions will be used to expand the adjacent functions.

REQUIREMENT: This project is required to expand facilities at LATP to provide for the possible production of 150 M1 tanks per month.

CURRENT SITUATION: Presently, facilities at LATP are producing 60 hull and turret structures per month and assembling 30 tanks per month on a 5 day, multi-shift basis. The Detroit Arsenal Tank Plant is assembling 30 tanks per month. The existing Lima facility is capable of supporting a structure build rate of 90 per month and a tank assembly rate of 45 per month on a 3-8-5 shift basis.

IMPACT IF NOT PROVIDED: Higher production rates cannot be realized without increased production floor area at LATP. This project will provide the required floor space to permit LATP to surge to a production rate of up to 150 hull and turret structures and to assemble 75 tanks per month. Cancellation or delay of this project or any portions contained therein will cancel or delay the date at which the M1/M1E1 tank system may be produced at surge production rates in excess of 90 tanks per month.

1. COMPONENT	FY 19 85 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ARMY		February 1984

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
Detroit Arsenal Tank Plant (DATP) Warren, Michigan	Production Support at the Detroit Arsenal Tank Plant

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
	224 10	4856036	$1,142

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				989
Expand Material Lab	LS			(741)
Electrical Substation in the Main Production Bldg	LS			(248)
Subtotal				989
Contingency (10.0%)				99
Total Contract Cost				1,088
Supervision Insp and Overhead (5.0%)				54
Total Request				1,142

10. DESCRIPTION OF PROPOSED CONSTRUCTION This project will provide a new material control laboratory for chemical and metallurgical testing and it will provide for the installation of a new electrical sub-station in the main production building at the Detroit Arsenal Tank Plant.

11. REQUIREMENT

PROJECT: Provides a new materials laboratory and a new electrical substation.

REQUIREMENT: This project is required to construct a new materials laboratory which will eliminate overcrowding and to provide an electrical transformation system which will remove the highly inductive transient loading from the M1 tank machining area.

CURRENT SITUATION: The present laboratory is overcrowded with no space for new equipment already on hand and no storage space for materials being tested. The electrical circuits are inadequate and environmental conditions are marginal. Improvements are required if the laboratory is to continue in operation.

Almost the entire M1 Machining Area, the Bay bridge cranes and the M60 Hull and Turret Welding Areas are connected to Sub-Station #4. The highly inductive loading of the bridge cranes and welding equipment produce electrical transients or spikes of voltage which become superimposed upon the line voltage supplying all these areas. Computers and computer controlled equipment cannot tolerate the magnitude of transients generated by highly inductive devices. The proper programming of these "pulses" constitutes the "intelligence" of the computer. However, the computer cannot differentiate between an intelligent pulse and a spurious pulse (transient).

1. COMPONENT	FY 19 85 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ARMY		February 1984

3. INSTALLATION AND LOCATION
Detroit Arsenal Tank Plant (DATP), Warren, Michigan

4. PROJECT TITLE	5. PROJECT NUMBER
Production Support at the Detroit Arsenal Tank Plant	4856036

IMPACT IF NOT PROVIDED: If the laboratory remains in its present location and condition there will be inefficient testing of materials and delays in determining production problems. The crowded working conditions will cause testing errors since test set-ups must be continually set-up and turn-down due to inadequate space.

If this subproject is not approved and excessive amount of machine "downtime", extraordinary maintenance expenses and difficulty in sustained and/or accelerated production schedules.

DD Form 1391c

PREVIOUS EDITIONS MAY BE USED UNTIL EXHAUSTED

1. COMPONENT: Army	FY 1985 MILITARY CONSTRUCTION PROJECT DATA	2. DATE: February 1984
3. INSTALLATION AND LOCATION: Stratford Army Engine Plant, Stratford, CT	4. PROJECT TITLE: SPT - Facility Rehabilitation for the Stratford Army Engine Plant	

PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
		7858174	257

9. COST ESTIMATES

ITEM		U/M	QUANTITY	UNIT COST	COST ($000)
#'s	DESCRIPTION				
6/6	Exterior Lighting				56
6/17	Substation #70 B6				167
	SUBTOTAL				223
	Contingency (9.9%)				22
	Total Contract Cost				245
	Supv, Insp & Overhead (5%)				12
	TOTAL Request				257

. DESCRIPTION OF PROPOSED CONSTRUCTION

ount low pressure sodium lights on exterior of buildings and install one pole with light. eplace existing switchgear and upgrade the transformer at sub-station #70 (Building 6) to ncrease capacity.

1. REQUIREMENT:

ROJECT: Install new low pressure sodium lighting and upgrade substation #70 (Building 6).

EQUIREMENT: This project is required to complete the upgrade of the plant lighting that is ecessary for around-the-clock manufacturing. It is also required to upgrade electrical ub-station #70 (Building 6) which is not capable of supporting increased production support esting requirements.

URRENT SITUATION: The existing lighting does not provide minimum lighting required for round-the-clock manufacturing necessary to meet production requirements. The switchgear s inefficient and does not meet current safety requirements. Present transformer capabilit ill not allow efficient testing to be accomplished at the production support testing acility.

MPACT IF NOT PROVIDED: If this project is not approved the manufacturing and production pport testing in support of the T53, T55 and the AGT 1500 turbine engines used in the UH-1 H-1, and CH-47 helicopters and OV-1 aircraft and the M1 tank will be adversely affected. pecifically, the manufacturing operation will continue to be constrained during non-daylight ours contributing to inefficient operation and associated safety risks. The production pport testing facility will not be able to support necessary simultaneous testing and full ale testing will be severly restricted.

1. COMPONENT	FY 19 85 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ARMY		February 1984

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
Mainz Army Depot, Germany	Alteration Modernization Expansion of Mainz Army Depot (MZAD)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
	821 15	4852006	13,941

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				12,467
Eng & Trans, Bldg 311	SF	33,400	$ 51.20	(1,710)
Alt Light Vehicle Maint Complex	SF	85,860	25.90	(2,224)
Utilities & Hardstands	LS	---	---	(680)
Tank Test Track	SY	17,160	153.79	(2,639)
Alt Bldg 6008	SF	51,177	9.89	(506)
Maint Shop for Turrets	SF	32,000	65.38	(2,092)
Track Assy & Disassy	SF	8,300	45.78	(380)
Alteration of Bldg 6011 for the Sgt York	SF	21,477	104.11	(2,236)
Subtotal				12,467
Contingency Percent (5%)				623
Total Contract Cost				13,090
Supervision, Inspect & Overhead (6.5%)				851
Total Request				13,941
Total Request (Rounded)				13,900
Installed Equipment - Other Appropriation				(2,359)

10. DESCRIPTION OF PROPOSED CONSTRUCTION The primary facility to support expansion of MZAD will require dismantling of existing buildings, modification to other existing buildings, annexes and new facilities. The primary facilities work will be performed at the site of the original depot and at the newly acquired site of the bus plant. Basic construction will be of reinforced concrete skeleton or steel frame construction and in all cases will be site adapted to existing facilities. In addition, the project will include required utility services, emergency lighting, crane facilities, water purification treatment, compressed air fire alarm and extinguishing system, partition walls and roof modifications. The hardstands and foundations will be of reinforced concrete. The tank test track will require demolition of an existing curve and construction of a straight section, service basin and bump course.

11. REQUIREMENT:

PROJECT: Construction and modification of facilities at Mainz Army Depot to accomodate expanded requirements.

REQUIREMENT: As the Army's Force Modernization Program continues to be implemented throughout the USAREUR, the workload in depot level maintenance will also increase. This is due to the increased sophistication of the new systems, the increased equipment density within the Theater, the numerous items displaced to War Reserve or POMCUS status, and conversion to new equipment configurations. This will occur in all commodity areas. For most commodities, shipment to CONUS for repair is extremely costly. This is particularly true of Combat Vehicles which are bulky and heavy. In addition, CONUS repair requires that additional items, either end items or secondary items, be procured to increase the repair cycle float by the amount of the turn around required. The most economical approach to accomplish the expanding depot level workload for combat vehicles in USAREUR (and meet DARCOM's concept for depot level maintenance support in Europe) is to alter and expand the MZAD facility, thereby allowing sufficient space to overhaul/repair combat vehicles.

1. COMPONENT	FY 1985 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ARMY		February 1984

3. INSTALLATION AND LOCATION

Mainz Army Depot, Germany

4. PROJECT TITLE	5. PROJECT NUMBER
Alteration Modernization Expansion of MZAD Army Depot	4852006

CURRENT SITUATION: The Mainz Army Depot is a very physically constrained facility. Part of the workload for the Weapon systems is presently being met through a subcontracting effort. The additional workload required for the repair/overhaul of the systems cannot be met without modernizing existing facilities by replacing existing temporary facilities with permanent structures, expanding the Mainz Mombach facility (formerly the Magirus-Deutz bus plant), and modernizing and expanding support facilities. Mainz is tasked with maintaining, at depot level, Army Combat/Tactical vehicles, missiles and Communication and Electronics in Europe. This project supports the combat vehicle mission. The only reasonable alternatives to utilizing Mainz is to transfer all repairable combat vehicles and components of vehicles in Europe to a CONUS depot or contractor for the repair/overhaul. These alternatives and the extremely costly maintenance float requirement for combat vehicles and components would cause the U.S. Government to lose all benefits to be gained from existing facilities and IPE at MZAD in relation to the combat vehicle fleet.

IMPACT IF NOT PROVIDED: Should this project not be approved, Mainz would be unable to satisfy the repair/overhaul requirements. Failure to provide for the OCONUS maintenance of the USAREUR combat vehicle fleet will result in a significant degradation in the combat readiness of USAREUR or require costly second destination transportation of vehicles and components and necessitates having an extensive maintenance float in Europe. This facility project is necessary to meet an imminent demand for repair/overhaul capability. Delay of the projects will require that interim inefficient (and therefore costly) means be employed to attempt to satisfy the repair/overhaul requirements.

Estimated Construction Start:	April	1985	INDEX: 1434
Estimated Midpoint of Construction:	October	1985	INDEX: 1487
Estimated Construction Completion:	April	1986	INDEX: 1504

Estimated Costs Based on a 2.56 DM/$1 Exchange Rate

1. COMPONENT	FY 1985 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ARMY		February 1984

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
Holston Army Ammunition Plant, Kingsport, Tennessee	Precipitator Access Platforms, Area-A

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
78011A	821	B363-64 (5855328-15)	230

9. COST ESTIMATES

ITEM	UNIT	QUANTITY	UNIT COST	COST ($000)
Primary Facility				211
Steel Work (Gratings, handrail and kick plates, supports, catwalks, stairs, grating treads, misc. connections)			LS	(192)
Electrical & Lighting			LS	(19)
Subtotal				211
Contingency (5%)				11
Total Contract Cost				222
Supervision, Inspection & Overhead (5.5%)				12
Total Request				234
Total Request (Rounded)				230
(Installed Equipment - Other Appropriations)				(0)

10. DESCRIPTION OF PROPOSED CONSTRUCTION Fabricate and install steel walkways, stairs and ladders and necessary support framing. Extend electrical circuitry and install safety lighting over the new access routes.

11. REQUIREMENT

PROJECT: Construct steel platforms and stairs to provide access to electrostatic precipitator equipment.

REQUIREMENT: This project is required to provide safe working conditions at a central steam plant in Area-A and effect compliance with OSHA regulations.

CURRENT SITUATION: At present, access to exterior electrostatic precipitator equipment requires workers to climb steel ladders that are more than 53 feet high. The access is required for inspection and maintenance of precipitator equipment. Inspections are required six times per day (twice on each of three shifts) and maintenance is necessary from 3 to 4 times per week. This is unsatisfactory from a safety standpoint, especially during the night shifts and during inclement weather. The proposed project will provide safe access ways and adequate lighting to enhance worker safety.

IMPACT IF NOT PROVIDED: If this project is not approved, workers will continue to be exposed to hazardous working conditions and serious preventable accidents could occur.

ADDITIONAL: This work is required by OSHA Regulation paragraph 1910-24[b].

1. COMPONENT	FY 1985 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ARMY		February 84

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
Holston Army Ammunition Plant, Kingsport, Tennessee	Improve Coal Handling Facilities

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
78011A	821	B363-65 (5852199)	7,000

9. COST ESTIMATES

ITEM	UM	QUANTITY	UNIT COST	COST ($000)
Primary Facility				6,357
Improve Coal Handling Facilities at Steam Plants A and B			LS	(6,357)
Subtotal				6,357
Contingency (5 %) (Alteration & Retrofit)				318
Contract Cost				6,675
Supervision, Inspection & Overhead (5.5%)				367
Total Request				7,042
Total Request (Rounded)				7,000
(Installed Equipment - Other Appropriations)				2,000

10. DESCRIPTION OF PROPOSED CONSTRUCTION Improve coal handling facilities at the Area A and Area B Steam Plants. Includes construction of unloading areas, crushers, outdoor storage sites, belt conveyors and installation of passenger/freight elevators at both steam plants.

11. REQUIREMENT

PROJECT: Improve coal handling system at two steam plants.

REQUIREMENT: Holston AAP is the sole source of RDX and HMX explosives and their several compositions. The increased steam requirement needed to support the scheduled expansion of production output of these explosives will, by FY 88, increase the coal handling requirements by almost 400%. Improvements to the coal handling systems are necessary to meet the planned increase in end-item output.

CURRENT SITUATION: The existing systems are approximately 40 years old and require extensive and costly maintenance to support the present steam requirements. New coal handling systems are needed to reduce operations and maintenance costs, provide direct transfer of coal from storage piles to the steam plants, avoid double-handling of coal, avoid demurrage costs on RR coal cars, and provide capacity and reliability to support the increased production requirement.

IMPACT IF NOT PROVIDED: If this project is not approved, the scheduled increases in RDX/HMX production cannot be achieved and FYDP goals cannot be obtained.

1. COMPONENT	FY 1985 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ARMY		February 84

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
Holston Army Ammunition Plant, Kingsport, Tennessee	Modernize Explosive Production Facilities

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
78011A	226	B363-66 (5852447B)	7,800

9. COST ESTIMATES

ITEM	UNIT	QUANTITY	UNIT COST	COST ($000)
Primary Facility				6,697
Modify, Convert, Reactivate RDX/HMX Production Lines & Support Facs			LS	(6,697)
Subtotal				6,697
Contingency (10%) (Alteration & Retrofit)				670
Contract Cost				7,367
Supervision, Inspection & Overhead (5.5%)				405
Total Request				7,772
Total Request (Rounded)				7,800
(Installed Equipment - Other Appropriations)				(12,228)

10. DESCRIPTION OF PROPOSED CONSTRUCTION Modify, realign, modernize and reactivate RDX/HMX production line facilities, install electrostatic precipitator on Boiler No. 5 at the Area B Steam Plant, provide facilities for new 1,500 CFM air compressor, replace two highway bridges over the Holston River that provide access to the X-Magazine Area.

11. REQUIREMENT

PROJECT: Alter, convert, modernize, replace production and support facilities to activate the RDX/HMX production line operations.

REQUIREMENT: Modernization and activation of HMX/RDX production facilities is required to meet the production requirements for the Five Year Defense Plan (FYDP) and stockpiling requirements for ammunition end items.

CURRENT SITUATION: The existing production capacity cannot meet the FYDP and stockpiling requirements and facilities need to be modernized and reactivated to meet the additional requirements.

IMPACT IF NOT PROVIDED: If this project is not approved the production capacity will remain limited, FYDP and stockpiling requirements cannot be met, nor can the increased requirements that would be required in the event of mobilization.

1. COMPONENT	FY 1985 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ARMY		February 84

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
Holston Army Ammunition Plant, Kingsport, Tennessee	Expand Lacquer Preparation Facility

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
78011A	226	B363-68 (5852439-B)	910

9. COST ESTIMATES

ITEM	UNIT	QUANTITY	UNIT COST	COST ($000)
Primary Facility				781
Building Addition			LS	(462)
Paving & Walks			LS	(142)
Site Work & Misc			LS	(177)
Subtotal				781
Contingency (10%) (Alterations & Retrofit)				78
Contract Cost				859
Supervision, Inspection & Overhead (5.5%)				47
Total Request				906
Total Request (Rounded)				910
(Installed Equipment - Other Appropriations)				(2,094)

10. DESCRIPTION OF PROPOSED CONSTRUCTION Construct two story addition on south side of Lacquer Preparation Facility (Bldg 150) with freight elevator, electrical equipment room, and a covered loading dock on northwest side of the addition. Provide raw material storage area and lacquer vessel storage area. Extend existing paved area to provide access to the new addition.

11. REQUIREMENT

PROJECT: Construct an addition to the Lacquer Preparation Facility (Bldg No. 150).

REQUIREMENT: Expansion of the Lacquer Preparation Activity is required to support the increase requirements of the Five Year Defense Plan (FYDP) and to meet stockpiling requirements for ammunition and items.

CURRENT SITUATION: The existing capacity is not sufficient to meet the increased FYDP requirements, plus stockpiling, for Composition C-4 or other RDX plastic explosives.

IMPACT IF NOT PROVIDED: If this project is not approved, the increased FYDP and stockpiling requirements for FY 86-89 cannot be met.

1. COMPONENT	FY 1985 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ARMY		February 84

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
Holston Army Ammunition Plant, Kingsport, Tennessee	Modernize Composition C-4 Facility, Line 8

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
78011A	226	B363-67 (5852054)	3,900

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				3,362
Convert/Modernize Line 8 for Composition C-4 Production			LS	(3,362)
Subtotal				3,362
Contingency (10%) (Alteration & Retrofit)				336
Contract Cost				3,698
Supervision, Inspection & Overhead (5.5%)				203
Total Request				3,901
Total Request (Rounded)				3,900
(Installed Equipment - Other Appropriations)				(8,100)

10. DESCRIPTION OF PROPOSED CONSTRUCTION Modernize production Line 8 - Work includes: Provision of backup power to Bldgs D-8 & G-8, dismantle the reactor leg shed on Bldg D-8 and install the piping inside, install new building equipment as needed, convert Bldgs E-8 & H-8 to continuous filtration, install weigh systems, install new elevator system and dock at Bldg G-8, new conveyor system from H-8 to I-8A, install heat pump in Lab Bldg 0-7, install automatic palletizing equipment, construct a new building to house dryers, construct new barricades on 3 sides of Bldg N-8 (packout) and at one new building.

11. REQUIREMENT

PROJECT: Convert Line 8 from Composition-B to C-4 production.

REQUIREMENT: The conversion from Comp-B to C-4 production is necessary to meet the requirements for C-4 in the Five Year Defense Plan (FYDP) and production requirements for stockpiling the material.

CURRENT SITUATION: Line 8 is now configured for Comp-B production and in a layaway condition. The proposed project will convert Line 8 to meet the production requirements of C-4 and modernize the line's 1940s type equipment and facilities.

IMPACT IF NOT PROVIDED: If this project is not approved, the capacity to produce C-4 will remain limited, FYDP requirements and stockpile requirements will not be met.

1. COMPONENT	FY 1985 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ARMY		February 84

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
Indiana Army Ammunition Plant, Charlestown, Indiana	Propelling Charge Qualification Facility

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
78011A	226	B519-44 (5852159)	1,900

9. COST ESTIMATES

ITEM	UNIT	QUANTITY	UNIT COST	COST ($000)
Primary Facility				1,422
Building Construction	SF	13,000	109.40	(1,422)
Supporting Facilities				287
Electric Service			LS	(20)
Fire Protection System Valves, Hydrants			LS	(11)
Fuel Oil Storage & Piping			LS	(15)
Roads & Parking			LS	(15)
Storm Drainage			LS	(42)
Site Work			LS	(184)
Subtotal				1,709
Contingency (5%)				85
Total Contract Cost				1,794
Supervision, Inspection & Overhead (5.5%)				99
Total Request				1,893
Total Request (Rounded)				1,900
(Installed Equipment - Other Appropriations)				(232)

10. DESCRIPTION OF PROPOSED CONSTRUCTION Construct propelling charge qualification building with rapid-action-deluge fire protection systems and required supporting facilities, utility connections and site work.

11. REQUIREMENT

PROJECT: Construct propelling charge qualification facility.

REQUIREMENT: This project is required to provide a safe and adequate facility for trial loading, assessment and evaluation of propellant charges, loading and packing equipment, production line operations, and for training of new workers.

CURRENT SITUATION: There is no existing facility that is dedicated to loading assessment and evaluation and these activities are now performed under make-shift conditions at several locations at the plant. These areas are not equipped with deluge sprinkler protection and other safety features and would not be available during a mobilization since they would be in use for urgent production. The proposed facility will provide safe, protected areas for trial loading of charges prior to full production, will provide a training area for new production workers and includes floor space for equipment evaluation and live testing prior to installation in production load lines.

IMPACT IF NOT PROVIDED: The charge qualification, trial loading, production line equipment testing and new worker training must continue to be carried out under make-shift conditions with the attendant hazards to production workers.

1. COMPONENT	FY 1985 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ARMY		February 84

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
Iowa Army Ammunition Plant, Middletown, Iowa	Install Blow-Out-Roofs On Two Buildings

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
78011A	226	B575-43 (5855333-13)	690

9. COST ESTIMATES

ITEM	UNIT	QUANTITY	UNIT COST	COST ($000)
Primary Facility				621
Install Blow-Out-Roofs (See Block 10)				
Building 1-05-2			LS	(155)
Building 1-40			LS	(466)
Subtotal				621
Contingency (5%)				31
Contract Cost				652
Supervision, Inspection & Overhead (5.5%)				36
Total Request				688
Total Request (Rounded)				690
(Installed Equipment - Other Appropriations)				(0)

10. DESCRIPTION OF PROPOSED CONSTRUCTION Demolish existing roof structures on two explosive operating buildings and replace with blow-out-roof systems. Work includes carpentry, sheet metal work, installation of light-weight roofing and repositioning and/or replacement of building lightning protection systems.

11. REQUIREMENT

PROJECT: Install blow-out type roof systems on two production buildings.

REQUIREMENT: This project is required to effect compliance with explosive safety regulations that require explosive operating buildings to have roofs weighing 10 pounds per square foot, or less.

CURRENT SITUATION: The existing deteriorated conventional roof structures are much heavier than the 10 pound maximum allowable weight. Should an explosive accident occur in the facilities, damage to the structure, to costly production equipment and, most importantly, injuries to production personnel would be of a much greater magnitude than if blow-out type roofs were in place.

IMPACT IF NOT PROVIDED: If this project is not approved the undue hazard to worker safety will continue to exist as the explosive production operations must continue in areas with known safety deficiencies.

1. COMPONENT	FY 1985 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ARMY		February 84

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
Iowa Army Ammunition Plant, Middletown, Iowa	Upgrade Air Conditioning, Two Buildings

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
78011A	226	B575-44 (5855333-16)	1,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				998
Bldg 1-40, A/C Upgrade			LS	(574)
Bldg 1-61, A/C Upgrade			LS	(320)
Electrical Work & Controls			LS	(104)
Subtotal				998
Contingency (5%)				50
Contract Cost				1,048
Supervision, Inspection & Overhead (5.5%)				58
Total Request				1,106
Total Request (Rounded)				1,100
(Installed Equipment - Other Appropriations)				(0)

10. DESCRIPTION OF PROPOSED CONSTRUCTION Install 120 ton and 80 ton electrically driven chillers in Buildings 1-40 and 1-61 respectively. Work includes piping, valves, controls, duct systems, air handling units and electric service.

11. REQUIREMENT

PROJECT: Install air conditioning systems in two production buildings.

REQUIREMENT: Modern air conditioning systems are required to replace an aged, worn and inefficient existing central cooling system.

CURRENT SITUATION: The existing 600 ton central cooling system will be replaced by two units totaling 200 tons. Its 30 year old cooling tower is deteriorated and beyond economical repair and the 15 year old steam-absorption chiller is oversized for the present cooling load, is operating very inefficiently, and is 5 years beyond the normal period at which major reconditioning is required. The proposed replacement with units that will provide the cooling requirement with only one-third of the existing tonnage is the most economical means of providing cooling for the two explosive production buildings.

IMPACT IF NOT PROVIDED: If this project is not approved, the existing system will require a large expenditure for rebuild and for cooling tower replacement and the high costs of cooling will continue.

1. COMPONENT	FY 1985 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ARMY		February 84

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
Louisiana Army Ammunition Plant, Shreveport, Louisiana	Chemical Laboratory

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
78011A	226	B435-41 (5852507)	1,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				1,141
Chemical Laboratory	SF	7,040	143.90	(1,013)
Acid & Alkali Storage Bldg (1)			LS	(11)
Flammable Liquid Storage Bldg (1)			LS	(13)
Oxidizer Storage Bldg (1)			LS	(5)
Explosives Magazines (4)			LS	(99)
Supporting Facilities				288
Electric Service				(72)
Water, Gas, Sewer				(126)
Paving, Site Improvement & Fencing				(90)
Subtotal				1,429
Contingency (5%)				71
Contract Cost				1,500
Supervision, Inspection & Overhead (5.5%)				83
Total Request				1,583
Total Request (Rounded)				1,600
(Installed Equipment - Other Appropriations)				(0)

10. DESCRIPTION OF PROPOSED CONSTRUCTION Construct chemistry lab with temperature and humidity control, explosive testing rooms/cubicles with blow-out wall and roof panels, non-explosive testing and analysis areas, rest/change rooms, break/lunch room, chemical storeroom and library/office. Toxic fume vents to be provided for hoods/ovens. Included are seven small storage buildings and covered ramps.

11. REQUIREMENT

PROJECT: Construct chemical laboratory.

REQUIREMENT: A safe and adequate chemical laboratory is required for raw material testing, explosive end-product analyses and analysis of water, production chemical processes, waste water, environmental processes and EPA data.

CURRENT SITUATION: The existing wood frame laboratory, constructed in 1941, has been augmented with lean-to additions to provide additional floor space, but does not meet explosive safety requirements and cannot be economically modified to effect compliance. The building is not acceptable for processing explosive samples in that physical protection is not afforded personnel performing unrelated work. Its floor space is inadequate in spite of tacked-on additions, and emergency exits are restrictive. The toxic fume vent system is hazardous to health because draw-back of fumes or gases can occur and controlled testing temperature and humidity levels cannot be obtained.

IMPACT IF NOT APPROVED: If this project is not approved the analysis of explosives raw materials and end products must continue to be performed in an inadequate and unsafe facility.

1. COMPONENT	FY 1985 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ARMY		February 84

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
Radford Army Ammunition Plant, Radford, Virginia	120 mm Propellant Blending/ Packout Facility

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
78011A	226	B224-89 (5852229A)	460

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility:				419
Alterations to Bldg No. 3712:				
Architectural & Structural Work			LS	(164)
Mechanical			LS	(147)
Electrical			LS	(68)
Demolition			LS	(32)
Site Work				(8)
Subtotal				419
Contingency (5%)				21
Contract Cost				440
Supervision, Inspection & Overhead (5.5%)				24
Total Request				464
Total Request (Rounded)				460
(Installed Equipment - Other Appropriations)				(69)

10. DESCRIPTION OF PROPOSED CONSTRUCTION Alter existing production building for 120 mm (355 mm stick) propellant blending and packout; work includes rehab of building interior, fire protection sprinkler system, heating and A/C using equipment on hand, and provisions for installation of production equipment.

11. REQUIREMENT

PROJECT: Alter existing production building for explosive blending and packout.

REQUIREMENT: A blending and packout facility for 120 mm Propellant is required that will produce 180,000 pounds per month to meet the projected requirement for that item.

CURRENT SITUATION: Radford AAP has at present a blending and packout capability of only 15,000 pounds per month. The proposed facility renovation is the most economical means of providing the capacity to meet the projected requirement.

IMPACT IF NOT PROVIDED: If this project is not approved, the capability to meet the projected ammunition requirement will not exist.

1. COMPONENT	FY 1985 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ARMY		February 84

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
Radford Army Ammunition Plant, Radford, Virginia	Replace Explosion Protection Barricades

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
78011A	226	B224-90 (5855326-13)	2,150

9. COST ESTIMATES

ITEM	UNIT	QUANTITY	UNIT COST	COST ($000)
Primary Facility				1,488
Barricades (10)			LS	(1,488)
Supporting Facilities				430
Electric Service			LS	(114)
Utilities			LS	(140)
Demolition			LS	(176)
Subtotal				1,918
Contingencies (5%)				96
Total Contract Cost				2,014
Supervision, Inspection & Overhead (5.5%)				111
Total Request				2,125
Total Request (Rounded)				2,150
(Installed Equipment - Other Appropriations)				(0)

10. DESCRIPTION OF PROPOSED CONSTRUCTION Removal and replacement of barricades for 10 active propellant production buildings. Work includes removal and reinstallation of utilities, process piping and duct work attached to or passing through the barricades and removal and replacement of attached roofs, floor structures and escape chutes and electrical upgrade.

11. REQUIREMENT

PROJECT: Replacement of 10 double-revetted, wooden, earth filled barricades at Radford Army Ammunition Plant (AAP). This project is the sixth increment of an annual barricade replacement program at this plant.

REQUIREMENT: This project is required to provide adequate, safe barricades to enable the AAP to operate within existing intraline quantity distances.

CURRENT SITUATION: Most of the barricades at this AAP were originally erected during 1940-41. For some time it has been necessary to do extensive repair work each year to keep them in a structurally safe and sound condition. Because of the accelerating rate of deterioration, repair can no longer keep pace with requirements. Radford AAP has 240 barricades at explosive production buildings that are required to maintain current and mobilization production schedules. Of this number, 142 can be maintained in satisfactory condition for the next 20 years and projects will be submitted in future program years to replace the remaining unserviceable barricades --the most deteriorated ones first.

IMPACT IF NOT PROVIDED: Without adequate barricades, Radford AAP will not be able to operate within existing intraline quantity distances.

ADDITIONAL: Explosion protection barricades protect workers, buildings and production equipment and prevent blast propagation to other explosive production buildings in the event of mishap.

1. COMPONENT	FY 1985 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ARMY		February 84

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
Radford Army Ammunition Plant, Radford, Virginia	Replace Barricade and Process Building

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
78011A	226	B224-91 (5855326-21)	330

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				294
Demolish Existing Barricade			LS	(37)
Construct New Barricade			LS	(106)
Demolish Building 1878			LS	(21)
Construct Explosive Finishing Building			LS	(50)
Loading Shed, Dock Roof & Supports			LS	(42)
Blower House (Metal Bldg)			LS	(1)
Sprinkler House (Firehouse)			LS	(1)
Mechanical, Electrical & Fire Protection			LS	(36)
Subtotal				294
Contingency (5%)				15
Contract Cost				309
Supervision, Inspection & Overhead (5.5%)				17
Total Request				326
Total Request (Rounded)				330
(Installed Equipment - Other Appropriations)				(0)

10. DESCRIPTION OF PROPOSED CONSTRUCTION Demolish multi-story barricade and Bldg 1878 and replace with one-story barricade and one-story explosive finishing building. Construct loading shed with roof over existing dock, blower house, sprinkler house and install fire protection system.

11. REQUIREMENT

PROJECT: Demolish existing multi-story building and barricade and construct a new one story building with a one-story high barricade.

REQUIREMENT: An adequately sized building with an explosion protection barricade is required to provide space within a barricaded area for the weighing and finish processing of explosives in a safe and efficient manner.

CURRENT SITUATION: An existing small, multi-story structure (Bldg 1878), a former can pack house now used as a propellant finishing building, has insufficient floor area for the explosive weighing and finishing operations and its protective barricade, built during World War II, is also multi-story, badly deteriorated and requires replacement. A cost study has established that demolition of these facilities and replacement with a one-story building and one-story barricade is the least costly means of providing the required facilities ($79,700 less). There is no other adequately sized, suitable facility convenient to the finishing area to which the operation can be transferred.

IMPACT IF NOT APPROVED: The finishing operations will continue in the inadequately sized facility with marginal safety for production workers.

1. COMPONENT	FY 1985 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ARMY		February 84

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
Scranton Army Ammunition Plant, Scranton, Pennsylvania	Replace Water Distribution System

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
78011A	226	B258-12 (5852359)	2,050

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				1,846
Demolish Existing & Install New Water Distribution Piping as follows:				
Production & Forge Shops			LS	(721)
Heat Treatment & Joiner Buildings			LS	(154)
Exterior Process Water			LS	(316)
Production Shop Fire Protection			LS	(122)
Forge Shop Fire Protection			LS	(129)
Subway Tunnels			LS	(113)
Exterior Fire Protection			LS	(291)
Subtotal				1,846
Contingency (5%)				92
Contract Cost				1,938
Supervision, Inspection & Overhead (5.5%)				107
Total Request				2,045
Total Request (Rounded)				2,050
(Installed Equipment - Other Appropriations)				(55)

10. DESCRIPTION OF PROPOSED CONSTRUCTION Construct new plant-wide water distribution system to completely replace existing system. All below ground piping is to be replaced and the majority of the exposed piping above ground. Work includes excavation and backfill and required patching of existing paved areas.

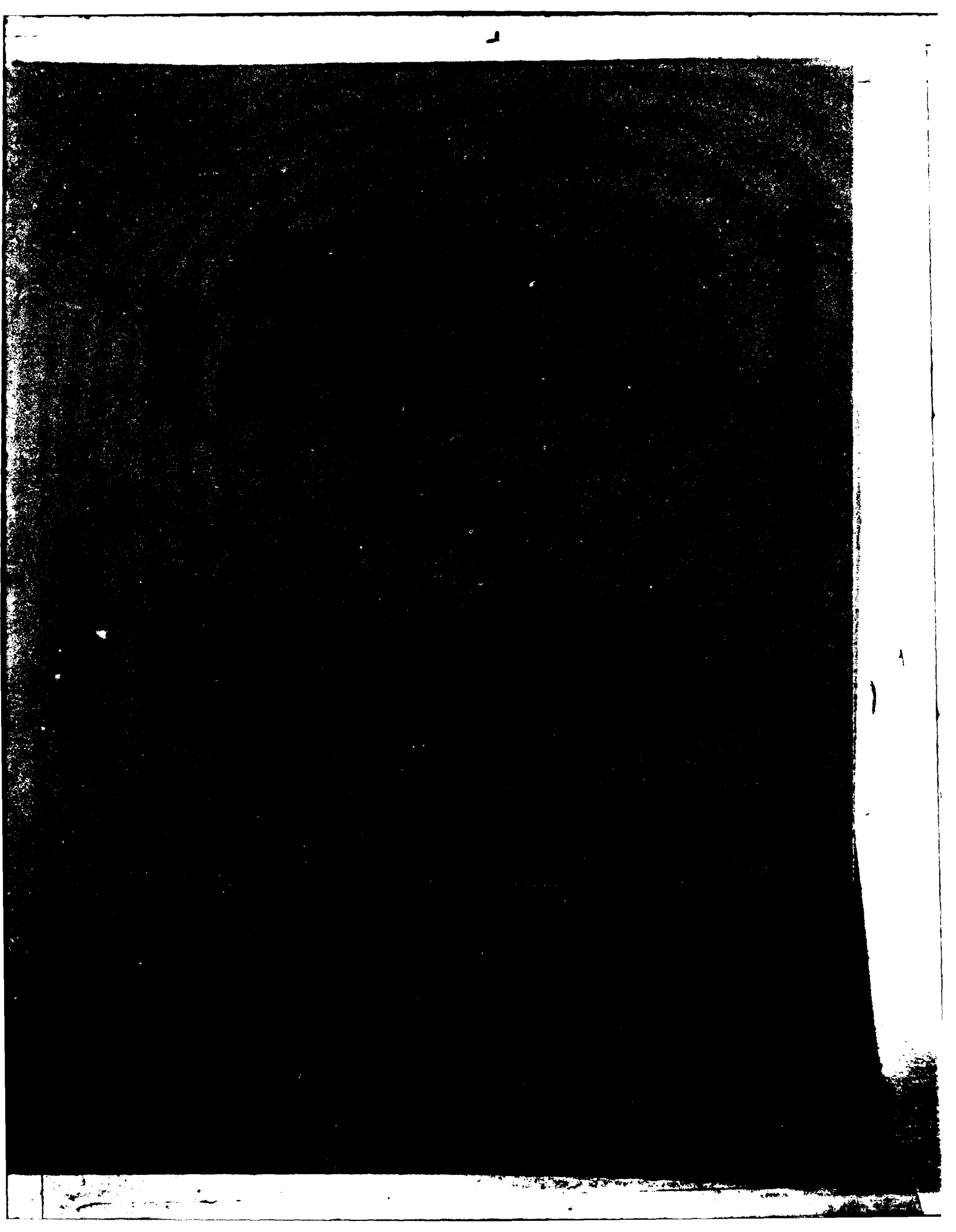
11. REQUIREMENT

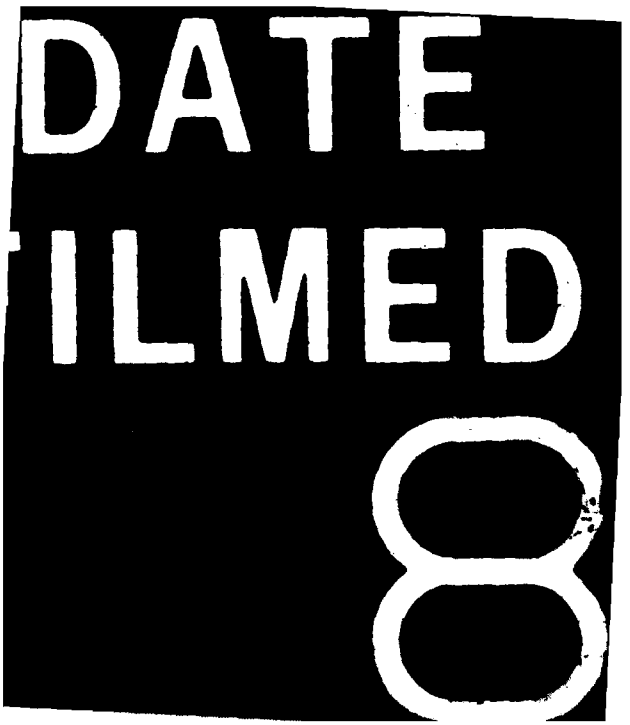
PROJECT: Complete replacement of existing water distribution system.

REQUIREMENT: During the operation of the plant, water leaks occur as the system wears out. The existing system is over eighty years old, having been installed during the original construction of the installation during the period from 1903 to 1908. When leaks occur, the main valve which controls all water to the installation must be turned off in order to perform the repairs. This is true even for the smallest of the main pipes, as the age of the pipes, along with their deteriorated state, results in more leaks as repairs are attempted.

CURRENT SITUATION: When leaks occur, the main valve must be used to shut off the more serious leaks, and repairs are made. In recent years, more and more repairs are necessary. The deteriorated pipes have become a maintenance intensive item, requiring a great amount of manpower to maintain.

IMPACT IF NOT PROVIDED: If this project is not approved, waste of water will continue and maintenance on other necessary items will be deferred in order to work on the water system. The system is at the stage where complete replacement is necessary.




DATE
ILMED
8